PATENT



Attorney's Docket No.: U 013872-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventors:

- 1. YAO-SUNG CHANG
- 2. YUNG-CHIANG CHUNG
- 3. MING-ZHENG SHIU



00140
PATENT TRADEMARK OFFICE

WARNING:

The Declaration must name all of the actual inventor(s).

For (title):

HIGH PERFORMANCE NUCLEIC ACID HYBRIDIZATION DEVICE AND PROCESS

Type of Application

This new application is for a(n) (check one applicable item below):

- ☑ Original (nonprovisional)
- □ Design
- ☐ Plant

WARNING:

Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4) unless the International Application is being filed as a divisional, continuation or continuation-in-

part application.

WARNING:

Do not use this transmittal for the filing of a provisional application.

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date FEBRUARY 11, 2002 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV011020567US addressed to the: Assistant Commissioner of Patents, Washington, D.C. 20231

CONNIE YANNOTT

(type of print name of person mailing paper)

(Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a data of mailing or transmission for this correspondence.

(Application Transmittal [4-1]—page 1 of 7)

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an international Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take Into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional must be filed prior to the Saturday, Sunday or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

☐ The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

- Divisional.
- Continuation.
- □ Continuation-in-Part (C-I-P).
- Papers Enclosed That Are Required For Filing Date Under 37 CFR 1.53 (Regular) or 37 CFR
 1.153 (Design) Application
 - 11 Pages of specification
 - 2 Pages of claims
 - _1 Pages of Abstract
 - 9 Sheets of drawing
 - ☑ formal
 - ☐ informal

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying Indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (% inch) down from the top of the page." 37 C.F.R. 1.84(c).

(complete the following, if applicable)

The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO
ACCEPT PHOTOGRAPH(S) AS DRAWING(S)". 37 C.F.R. 1.84(b).

	4.	Additional papers enclosed								
			Prel	imina	ary Amendment					
		Ø	Info	rmat	ion Disclosure Statement (37 CFR 1.98)					
		Ø	For	m PT	O-1449					
		Ø	Cita	tions	;					
			Dec	larat	ration of Biological Deposit					
			pert	Submission of "Sequence Listing," computer readable copy and/or amendment ertaining thereto for biotechnology invention containing nucleotide and/or amino acid equence.						
			Aut	horiz	ation of Attorney(s) to Accept and Follow Instructions from Representative					
			Spe	cial (Comments					
			Oth	er						
	5.	Dec	larati	on o	r oath					
		\square	Enc	losed	ı					
			exe	cuted	by (check all applicable boxes)					
			\square	inve	entors.					
				lega	al representative of inventors. 37 CFR 1.42 or 1.43					
					t inventor or person showing a proprietary interest on behalf of inventor who used to sign or cannot be reached.					
					This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.					
د.			Not	Encl	osed.					
	WARN	ING:	availa Interi may	able c nation be, ut	filing is a completion in the U.S. of an International Application but where a declaration is not or where the completion of the U.S. application contains subject matter in addition to the al Application the application may be treated as a continuation or continuation-in-part, as the case tilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. HON CLAIMED.					
				the	olication is made by a person authorized under 37 CFR 1.41(c) on behalf of all above named inventors. (The declaration or oath, along with the surcharge uired by 37 CFR 1.16(e) can be filed subsequently).					
	NOTE:	It is i	mporte	ent the	at all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).					
					Showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).)					
	6.	Inve	ntors	hip S	Statement					
	WARN	ING:		If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.						
		The	inver	ntors	hip for all the claims in this application are:					
			The	sam	e					
			Not time	the s	same. An explanation, including the ownership of the various claims at the last claimed invention was made,					
	7.	Lang	guage	•						

	applic entitle APPL	cation ed to ICATIO	or International Application from whi priority from a prior foreign applicat	ch this application claims benefit und ion then complete item 18 on the .	der 35 U.S.C. 120 is itself ADDED PAGES FOR NEW					
NOTE:	applic entitle APPL	cation ed to ICATIO	or International Application from whi oriority from a prior foreign applicat ON TRANSMITTAL WHERE BENEFIT (ch this application claims benefit und ion then complete item 18 on the .	der 35 U.S.C. 120 is itself ADDED PAGES FOR NEW					
	applic entitle	eation ed to	or International Application from whi priority from a prior foreign applicat	ch this application claims benefit und ion then complete item 18 on the .	der 35 U.S.C. 120 is itself ADDED PAGES FOR NEW					
			This item is for any foreign priority for which the epplication being filed directly relates. If any parent U application or International Application from which this application claims benefit under 35 U.S.C. 120 is its entitled to priority from a prior foreign application then complete item 18 on the ADDED PAGES FOR N. APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.							
NOTE:	The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration 37 CFR 1.55(a) and 1.63.									
			will follow.							
			is attached.							
		fi	om which priority is claimed							
			Country	Appin. No.	Filed					
	Cert	ified	copy of application							
9.	Cert	Certified Copy								
WARN	i/VG:			R 37 CFR 3.73(b)" must be filed w of April 30, 1993. 1150 O.G. 62-6						
NOTE:	"If ar	assig ne assi	nment is submitted with a new applice gnment." Notice of May 4, 1990 (11	ation, send two separate letters—one 14 O.G. 77-78).	for the application and one					
			will follow.							
		☑	is attached. A separate ☑ ACCOMPANYING NEW PAT attached.	"COVER SHEET FOR ASSIGNENT APPLICATION" or □ FO	NMENT (DOCUMENT RM PTO 1595 is also					
	☑	Ana	assignment of the invention to	INDUSTRIAL TECHNOLOGY R	ESEARCH INSTITUTE					
8.	Ass	ignm	ent							
			the attached translation is a	verified translation. 37 CFR 1	.52(d).					
		non	-English							
	\square	Eng	lish							
NOTE:	E: A non-English oath or declaration in the form provided or approved by the PTO need not be translated 1.69(b).									
	1.17	(k) is r	islation of the non-English language e	ation may be filed in a language oth oplication and the processing fee of \$ or within such time as may be set by	130.00 required by 37 CFI					

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12.	Req	uest	for Interna	tional	І-Тур	e Searc	ch (37	CF	R 1	.10	4(d)) <i>(Compl</i>	ete, if applicable)
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13.	Fee	Payr	nent Being	Mad	e At	This Ti	me					
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				-							•	740.00

			Ø	Recording assignme \$40.00; 37 CFR 1. SHEET FOR ASSIGI APPLICATION.")	21(h))			,		
				Petition fee for filing or person on behalf efused to sign or c \$130.00; 37 CFR	of the annot b	inventor whose reached.				
				or processing an a non-English langu \$130.00; 37 CFR	age.			in \$		
				rocessing and rete \$130.00; 37 CFR			•			
				ee for international \$40.00; 37 CFR 1.		earch report		\$		
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						Total fees	enclosed	\$	740.00	
14.		Meth	o bor	Payment of Fees						
		\square	Chec	in the amount of	\$	740.00				
			Char	e Account No. 12-0	0425 in	the amount	of	\$		
•		٠	A du	licate of this transm	nittal is	attached.				
NO	TE:	Fees s 1.22(i		e itemized in such a ma	nner that	it is clear for w	hich purpose	the fe	es are paid. 37 CFR	
15.	Aut	horiz	ation	o Charge Additiona	l Fees					
WARNIN	VG:	If no	fees a	e to be paid on filing, th	e followii	ing items should	not be compl	eted.		
WARNIN	/G:			ount claims, especially s are authorized.	multiple (dependent clain	ns, to avoid un	ехре	cted high charges, if extr	
.	Ø			nissioner is hereby during the entire p					additional fees by this bunt No. 12-0425.	
			37	FR 1.16(a), (f) or (g) (filing	g fees)				
			37	FR 1.16(b), (c) and	(d) (pr	esentation o	f extra clair	ns)		
Ĺ	only by th	use additional fees for excess or multiple dependent claims not paid on filing or on later presentation must be paid or these claims cancelled by amendment prior to the expiration of the time period set for response the PTO In any notice of fee deficiency (37 CFR 1.16[d]), it might be best not to authorize the PTO to charge Bional claim fees, except possibly when dealing with amendments after final action.								
. [16(e) (surcharge for the filing date of the			ling fee and	i/or d	declaration on a date	
8	Ø	37	CFR	17 (application pro	cessing	g fees)				
WARNIN	IG:	shou 1.13	ild be n 16(a) is	de only with the knowle	dge that:	"Submission of	the appropriat	te exte	136(a), this authorization ension fee under 37 C.F.R phasis added). Notice o	

\square	37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37
	CFR 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).

NOTE: 37 CFR 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application ... prior to paying, or at the time of paying, ... issue fee". From the wording of 37 CFR 1.28(b):

(a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

16.	Instructions	As To	Overpayment

☑ credit Account No. 12-0425

□ refund

Reg. No. 25,858

Tel. No. (212) 708-1930

William R. Evans Ladas & Parry 26 West 61 Street New York, NY 10023

✓ Incorporation by reference of added pages

(Check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)

Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Applica-
tion(s) Claimed

☐ Plus Added Pages for Papers Referred to in Item 4 Above

Number of pages added ____

Number of pages added ____

Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added 4_

	Statement	Where	Νo	Further	Pages	Added
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(If no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item:)

☐ This transmittal ends with this page.